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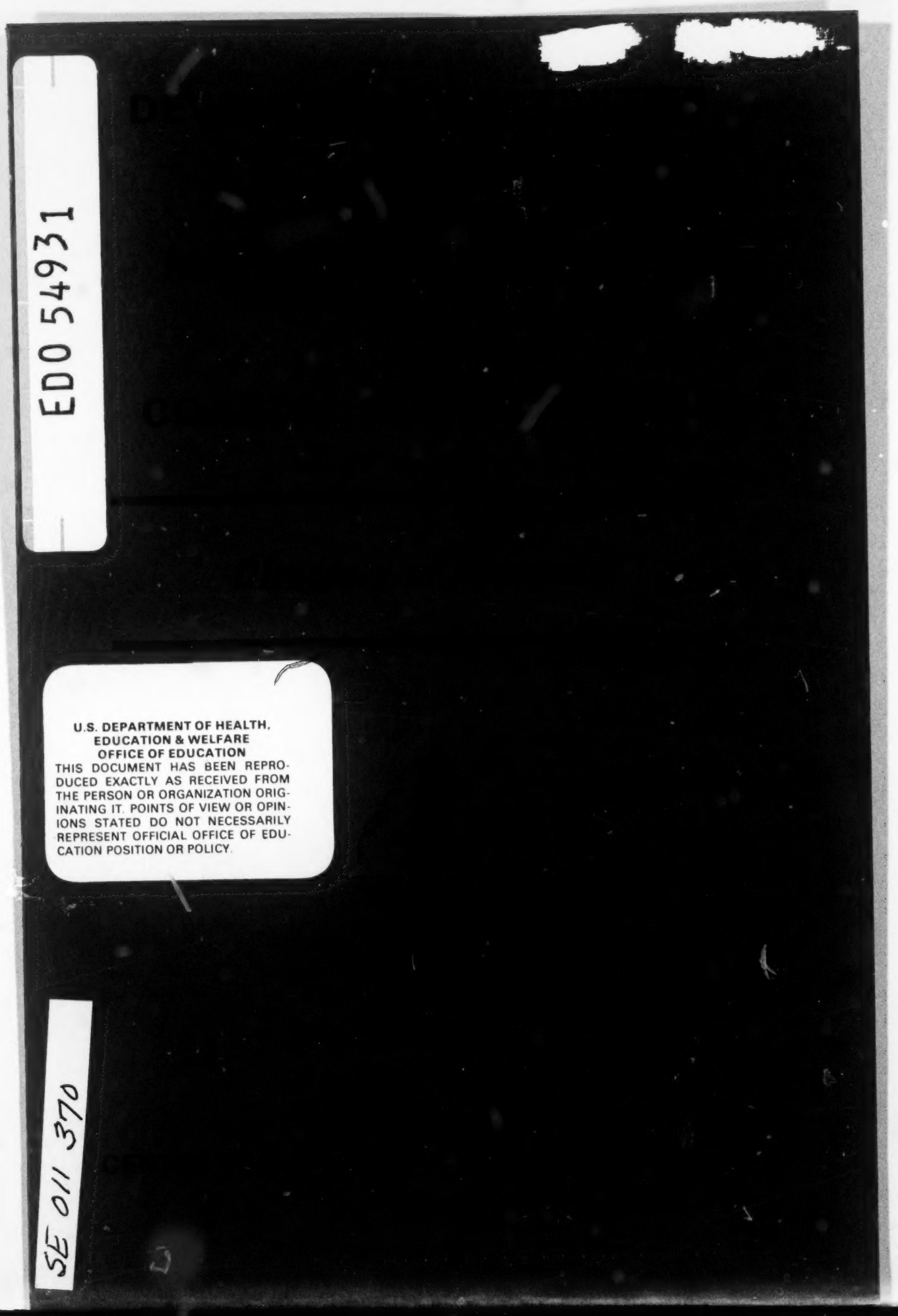
ABSTRACT

Listed in this directory are individuals concerned currently with marine activities on the coasts of North Carolina, South Carolina, and Georgia, and the adjacent offshore area, known administratively as the Coastal Plains Region. The categories for the listings include educational institutions, state and county agencies, and federal agencies. The field of interest and competence of listed individuals are identified. The Directory concentrates on specialists in technical fields, but also names individuals in advisory and regulatory bodies in the three States concerned with marine and coastal zone problems. An alphabetical index of personnel is also provided. (Author/PR)



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Directory of Personnel
in Research, Technology, Education,
Administration and Management

DEVELOPMENT ACTIVITIES IN THE MARINE ENVIRONMENT OF THE COASTAL PLAINS REGION

Publication 70-1

Coastal Plains
Center for Marine Development Services

Washington, D.C.

August 1970

COASTAL PLAINS REGIONAL COMMISSION

G. Fred Steele, Jr.	Federal Co-Chairman
Robert E. McNair	State Co-Chairman Governor of South Carolina
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E. Walton Jones, Ph.D.	Raleigh, North Carolina
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J. Marcus Stubbs	Savannah, Georgia
W. D. Trippe	Cedartown, Georgia

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COASTAL PLAINS
CENTER FOR MARINE DEVELOPMENT SERVICES

Frederick Betz, Jr., Ph.D.	Director
Harold W. Dubach	Oceanographer-Meteorologist
Philip G. Hill	Oceanographer-Geologist
Christyna E. Mecca, Ph.D.	Biologist

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INTRODUCTION

The development and protection of the marine environment, including the coastal zone, throughout the world is dependent largely on contributions of human knowledge, effort, and skill. The numerous factors that play a part in this environment demand a diversity of human capabilities to understand their significance and evaluate them for the greatest common benefit. It is important, therefore, to identify the individuals possessing the special qualifications necessary to perform those tasks which help shape the future of that environment.

In the accompanying Directory, we turn our attention to the individuals concerned currently with the coast of North Carolina, South Carolina, and Georgia, and the adjacent offshore area, known administratively as the Coastal Plains Region.

The Directory lists individuals under institutions and organizations with which they are associated. The fields of interest and competence of the individuals are identified. Thus, the Directory provides a measure of the amount and type of current expertise available to the Coastal Plains Region. It is mainly an inventory of individuals located in the Region, but it also includes individuals who work extensively on problems in the Region although their base of operations lies outside.

The Directory allows judgments to be formed on the gaps in coverage of subjects that are important to the development of the Coastal Plains Region, which must be closed in the future.

The preparation of the Directory was authorized by the Coastal Plains Regional Commission. In 1969 the Commission funded projects in the three States of the Region dealing with resources for marine research and development and plans for the future. The reports were prepared by Dr. John Lyman (Director of Marine Sciences, University of North Carolina at Chapel Hill) for North Carolina, Charles M. Bearden (South Carolina Division of Commercial Fisheries) for South Carolina, and Dr. Gene Bramlett (Associate Director, Institute of Community and Area Development, University of Georgia) for Georgia. The information on personnel supplied in these reports became the basic source for the present Directory. Information of this type is subject to change in short periods of time, and therefore, the Center undertook a thoroughgoing review of the listings, so as to bring them up to date as of July 1, 1970. In addition, the Center expanded the coverage of personnel by canvassing organizations that had not been included in the first inventories.

The Directory concentrates on specialists in technical fields, but also names individuals in advisory and regulatory bodies in the three States concerned with marine and coastal zone problems. It has not been possible in the scope of this project to point out the members of executive and legislative branches of government at different levels whose contributions to improvement in coastal zone and marine environmental management are essential. Their efforts make possible to a large extent the activities of those listed in the Directory.

The Coastal Plains Center now maintains a file of individuals and organizations concerned with marine and coastal development, so as to make publication of a new edition of the Directory easily possible from time to time and to answer inquiries at any time. We invite additional information appropriate for inclusion in the file.

The present edition of the Directory was prepared by Dr. Christyna E. Mecca of the Center staff.

Readers are advised that an accompanying Directory of marine and coastal zone research and development facilities will be published in the near future.

Frederick Betz, Jr., Ph.D.
Director

GEORGIA

ARMSTRONG STATE COLLEGE

Department of Chemistry and Physics

Fretwell G. Crider Ph.D
Professor
Physical chemistry

Cedric Stratton Ph.D
Assoc. Professor
Inorganic chemistry

BRUNSWICK JUNIOR COLLEGE

Department of Biology

Charles R. Reidlinger
Assoc. Professor
Embryology

Frances P. Scarboro
Assoc. Professor
Marine biology

EMORY UNIVERSITY

Department of Biology

Madeline P. Burbanck Ph.D
Research Associate
Estuarine ecology

William D. Burbanck Ph.D
Professor
Estuarine ecology

Robert B. Platt Ph.D
Professor
Plant ecology

Department of Geology

Arthur T. Allen Ph.D
Professor
Sedimentary processes

Department of Statistics and Biometry

Malcolm E. Turner Ph.D
Professor
Biomathematics

GEORGIA INSTITUTE OF TECHNOLOGY

School of Architecture

Anthony J. Catanese Ph.D
Assoc. Professor
Urban and regional planning

Arnall T. Connell
Assoc. Professor
Regional planning; urban design

Malcolm G. Little, Jr.
Professor
Public administration; regulation of coastal development

Joseph N. Smith
Assoc. Professor
Off-and on-shore buildings; water recreation

School of Biology

Edward L. Fincher Ph.D
Assoc. Professor
Microbial ecosystems and effects of pollution on their activities

John J. Heise Ph.D
Assoc. Professor
Microbiology of manganese in aquatic life systems; electron-spin resonance techniques

Nancy W. Walls Ph.D
Director and Professor
Microbiological aspects of marine sediments; pathological organisms in aquatic environments

School of Chemical Engineering

G. Leon Bridger Ph.D.
Director and Professor
Fertilizers for shore erosion protective plant life; desalination; recovery of values from concentrated brines

Homer V. Grubb Ph.D.
Professor
Materials of construction; stagewise operations

Robert F. Hochman Ph.D.
Professor
Physical metallurgy; corrosion; non-destructive testing

Clyde Orr, Jr. Ph.D.
Regents' Professor
Fine particle dynamics and characterization; sea-air interface phenomena

Henderson C. Ward Ph.D.
Professor
Transport phenomena

School of Chemistry

Charles L. Liotta Ph.D.
Assoc. Professor
Mechanisms of interaction of organic solute species and solvents

Robert A. Pierotti Ph.D.
Professor
Solubility of gases in water; the structure of water

Peter E. Sturrock Ph.D.
Assoc. Professor
Improved methods of measuring trace elements in water

Leon H. Zalkow Ph.D.
Assoc. Professor
Chemistry of marine vegetation

School of Civil Engineering

Richard D. Barksdale Ph.D.
Assoc. Professor
Dynamics of foundations systems; flow in porous media

M. R. Carstens Ph.D.
Professor
Scour and bed ripples under oscillatory flow; coastal engineering; off-shore structures; sediment transport

A. W. Hoadley Ph.D.
Assoc. Professor
Ecological systems in surface waters

Alan M. Lumb Ph.D.
Asst. Professor
Hydrologic and engineering-economic systems

C. S. Martin Ph.D.
Assoc. Professor
Hydraulic transients in open channals; free streamline hydrodynamics; sediment transport

Paul G. Mayer Ph.D.
Professor
Rollwaves; open channel flow; wave forces on marine structures

Fred G. Pohland Ph.D.
Assoc. Professor
Industrial waste treatment and control

William M. Sangster Ph.D.
Director and Professor
Stability of stratified flows

George M. Slaughter Ph.D.
Assoc. Professor
Flow in porous media

George F. Sowers
Regents' Professor
Sampling devices for ocean bottom materials

Ernest C. Tsivoglou Ph.D.
Professor
Industrial waste treatment and pollution control; reaeration capacity of tidal estuaries

James R. Wallace Sc.D.
Assoc. Professor
Water resources development; statistical hydrology; hydrologic systems

School of Engineering Science and Mechanics

Helmut F. Bauer Ph.D.
Professor
Hydroelastic sloshing; wave motion; non-linear vibrations

Wilton W. King Ph.D.
Assoc. Professor
Vibrations; wave propagation

Andrew W. Marris Ph.D.
Regents' Professor
Dynamics; kinematics of flow; vorticity theory; unsteady motion of fluids

George M. Rentzepis Ph.D.
Assoc. Professor
Mechanics of composite materials; waves, acoustics

School of Geophysical Sciences

Kevin C. Beck
Asst. Professor*
Geochemistry; chemistry of fresh and saline waters; marine geology

J. H. Reuter Ph.D.
Assoc. Professor*
Organic geochemistry; dissolved organic matter in river and ocean waters; organic pollutants

J. M. Wampler Ph.D.
Assoc. Professor*
Isotope geochemistry; radio-active tracers; geochemistry of lead in water and soils

Charles E. Weaver Ph.D.
Director and Professor
Geology; chemistry of water; origin of clay minerals and phosphates in sediments

Herbert L. Windom Ph.D.
Asst. Professor†
Chemical and geological oceanography; geochemistry

School of Nuclear Engineering

T. Fisher Craft Ph.D.
Research Chemist
Flow through porous media; environmental radioactivity

Geoffrey G. Eichholz Ph.D.
Professor
Radioisotopic power systems; nuclear analytical methods; radioactive tracer techniques

George W. Ledicotte
Professor
Neutron activation analysis; analysis of trace elements in the environment

Milton E. McLain
Senior Research Chemist
Nuclear analytical techniques; stable tracer techniques for flow measurement

James H. Rust Ph.D.
Assoc. Professor
Heat transfer; energy conversion; mechanics of fluid motion

J. Richard Williams Ph.D.
Asst. Professor
Propulsion reactors; energy conversion

School of Physics

R. Y. Patronis Ph.D.
Professor
Acoustical and electronic instrumentation; sound technology

LeRoy A. Woodward
Assoc. Professor
Acoustics; microscopy; optical instrumentation

*Research Associate, Skidaway Institute of Oceanography
†Chief, Physical Sciences Division, Skidaway Institute of Oceanography

Chemical Sciences Materials Division, Engineering Experiment Station

James M. Akridge
Senior Research Engineer
Materials for marine applications; surface and underwater vehicles and dwellings; extraction of oxygen from sea water

Frederick Bellinger D. Eng.
Professor of Chemical Engineering
Desalination; extraction of minerals, food, fertilizer; ocean-floor mapping

W. H. Burrows
Principal Research Chemist
Recovery of protein from fish, molluscs, and sea grasses

John H. Burson III Ph.D.
Senior Research Engineer
Chemistry and physics of surfaces; powder metallurgy; fine-particle technology

Robert S. Ingols Ph.D.
Research Professor of Biology
Biochemistry of water; water and waste treatment; limnology

John F. Kinney
Senior Research Engineer
Underwater acoustics; electromechanical devices; effects of underwater explosions

L. T. Long
Asst. Professor of Geology
Physical oceanography; seismicity; micro-earthquake seismic-risk evaluation

M. F. Munoz
Senior Research Engineer
Mineral beneficiation; zeta-potential; genesis of marine minerals

C. C. Ostrander
Research Engineer
Radiometric surveys; neutron activation analysis; computer applications to geology and geophysics

W. R. Tooke, Jr.
Principal Research Engineer
Coatings; corrosion prevention; materials characterization; rheological phenomena

Electronics Divison, Engineering Experiment Station

Henry A. Corriher, Jr.
Principal Research Engineer
Microwave backscatter from sea surfaces

Frederick B. Dyer
Senior Research Physicist
Statistical properties of sea clutter; backscatter and propagation related to sea surfaces

Edward R. Flynt
Principal Research Engineer
Electronic instrumentation; microwave backscatter from sea surfaces

Robert M. Goodman, Jr.
Principal Research Engineer
Antennas; mechanical devices for marine applications

Richard C. Johnson Ph.D.
Principal Research Physicist
Electromagnetic microwave backscatter from sea surfaces and targets

Wayne K. Rivers, Jr.
Principal Research Physicist
Radar Systems; experiment design; backscatter and propagation related to sea surfaces

Albert P. Sheppard Ph.D.
Principal Research Physicist
Biological instrumentation; electro-magnetic measurements

High Temperature Materials Divison, Engineering Experiment Station

Steve H. Bomar, Jr. Ph.D.
Senior Research Engineer
Basic characteristics of materials; CO_2 laser; high pressure, phase contrast microscopy

Charles W. Gorton Ph.D.
Professor of Chemical Engineering
Diffusion processes; fluid flow

Joe N. Harris
Senior Research Engineer
Processes and fabrication; felted ceramics

John H. Murphy Ph.D.
Assoc. Professor of Mechanical Engineering
Deep submergence structures

Nick E. Poulos
Principal Research Engineer
Ceramic materials for deep submergence; arc plasma coatings

J. D. Walton, Jr.
Principal Research Engineer
Dielectric materials; biomedical materials; agricultural frits

Industrial Development Divison, Engineering Experiment Station

Robert B. Cassell
Principal Research Economist
Industrial siting; plant location; regional economic development

Ben E. James, Jr.
Research Engineer
Plant location; economic analysis

David C. Morgan
Senior Research Scientist
Economic potentials; plant location

B. Sanford Ulmer
Research Engineer
Resource studies; regional economic development

Robert Van Geuns
Senior Research Engineer
Industrial and economic analysis; regional economics

George Whitlatch Ph.D.
Principal Research Scientist
Industrial siting; water resources; plant location

Environmental Resources Center

C. M. Conway
Asst. Director
Water resources planning and development

Duane W. Hill Ph.D.
Professor
Politics of natural resources; public administration; social measurements and experimental design

L. Douglas James Ph.D.
Assoc. Professor
Hydrology; water systems analysis; water resources economics

Carl E. Kindsvater
Director and Regents' Professor
Coastal engineering; water resources planning and management

F. William Kroeck
Instructor
Political and urban geography; water resources management; resources administration

Gene E. Willeke Ph.D.
Assoc. Professor
Hydrology; water systems analysis; resources planning and management; social impact of public works

GEORGIA SOUTHERN COLLEGE

Department of Geology

William J. Neal Ph.D.
Asst. Professor
Ocean sediments

GEORGIA STATE UNIVERSITY

Department of Biology

Donald G. Ahearn Ph.D.
Assoc. Professor
Ecology, physiology, systematics of marine yeasts; biodegradation of hydrocarbon and wood pulp wastes

Fred K. Parrish Ph.D.
Assoc. Professor
Pollution factors in shellfish culture

Department of Chemistry

H. James Bronaugh Ph.D.
Assoc. Professor
Extractive metallurgy of sediments

Department of Geology

Frederick H. Manley Ph.D.
Assoc. Professor
Composition and formation of marine clays

SKIDAWAY INSTITUTE OF OCEANOGRAPHY

James W. Andrews. Jr. Ph.D.
Senior Research Scientist
Marine foods; nutrition and metabolism in marine life; aquaculture

Lee H. Knight
Asst. Director, Services and Research Engineer
Electro-mechanical devices; thermodynamics; underwater acoustics

David W. Menzel Ph.D.
Director*

Howard H. Yen Ph.D.
Senior Research Scientist in Engineering
Thermodynamics; underwater acoustics and propulsion

UNIVERSITY OF GEORGIA

Bureau of Business and Economic Research

W. Wray Buchanan
Administrative Assitant-Services
Georgia travel industry

Polly W. Hein
Research Associate
Development of tourism in Georgia

Adolph Sanders
Research Associate
Development of tourism in Georgia

Cooperative Fisheries Research Unit

James P. Clugston
Asst. Unit Leader
Physiology of fisheries production

Alfred C. Fox Ph. D.
Unit Leader and Research Associate
Fisheries management

Department of Agricultural Economics

Evan E. Brown Ph.D.
Professor
Economics of commercial fishing in Georgia

Department of Biochemistry

Raymond B. Ashworth Ph.D.
Asst. Professor
Biochemistry of marine organisms

Milton J. Cormier Ph.D.
Assoc. Professor
Chemistry of bioluminescence

Department of Botany

Wilbur Duncan Ph.D.
Professor
Systematics of coastal vegetation

Department of Geography

Louis DeVorsey, Jr. Ph.D.
Assoc. Professor
Patterns of colonial land ownership along the south Atlantic coast

James B. Kenyon Ph.D.
Asst. Professor
Urban geography of coastal cities

James A. Shear Ph.D.
Professor
Water balance problems; physical oceanography

*Effective September 1, 1970

Richard A. Stephenson Ph.D.
Asst. Professor
Coastal plains landforms

James F. Woodruff Ph.D.
Professor
Atlantic coastline morphology

Department of Geology

Robert E. Carver Ph.D.
Asst. Professor
Sedimentary petrology; industrial mineralogy

Vernon J. Hurst Ph.D.
Professor
Crystallography; experimental petrology; economic geology

John E. Noakes Ph.D.
Assoc. Professor and Research Associate*
Radio-carbon dating of sediments

Barun K. Sen Gupta Ph.D.
Asst. Professor*
Micropaleontology

Edward A. Stanley Ph.D.
Assoc. Professor
Palynology, paleontology

Hartmut Wiedemann Ph.D.
Asst. Professor*
Marine geology; geochemistry of sediments

Department of Microbiology

William J. Wiebe Ph.D.
Asst. Professor
Marine microbiology

Department of Sociology, Anthropology and Archaeology

Joseph R. Caldwell Ph.D.
Professor
Archaeology of the south Atlantic coast

*Visiting staff, U. of Ga. Marine Institute, Sapelo

Department of Zoology

Robert E. Johannes Ph.D.
Research Associate
Nutrition of plankton organisms

Eugene P. Odum Ph.D.
Professor and Senior Research Associate*
Ecology of coastal environment ecosystems

Lawrence R. Pomeroy Ph.D.
Professor and Senior Research Associate*
Energetics and cycles of essential elements

Institute of Community and Area Development

Gene A. Bramlett Ph.D.
Assoc. Director
Development of Georgia's coastal resources

Institute of Natural Resources

E. L. Cheatum Ph.D.
Director†
Marine biology; marine resources administration

Edward Chin Ph.D.
Assoc. Director, Marine Resources
Estuarine ecology; crustacean biology

David Harrington
Marine fishery specialist
Gear research and development

A. S. Johnson Ph.D.
Assoc. Director, Biological Resources
Wildlife biology; land use ecology

Ronald M. North Ph.D.
Assoc. Director, Water Resources
Studies of the economic structure for water

†Director, Marine Program Development, University System of Georgia

School of Forest Resources

John D. Hewlett Ph.D.
Professor of Forest Hydrology
Watershed management

Melvin T. Huish Ph.D.
Asst. Professor of Fisheries Biology
Fisheries biology

James H. Jenkins Ph.D.
Professor of Wildlife Ecology
Uptake of radioactive fallout in fish and wildiife

Wade L. Nutter Ph.D.
Asst. Professor of Forest Hydrology
Sub-surface flow and nutrient cycling

UNIVERSITY OF GEORGIA MARINE INSTITUTE

Michael D. Dahlberg Ph.D.
Asst. Professor of Zoology
Systematics and ecology of estuarine and nearshore fishes; flat cycles of shad and mullet

Dirk Frankenberg Ph.D.
Assoc. Professor of Zoology
Isopod physiology and animal-sediment relationships

Robert W. Frey Ph.D.
Research Associate
Studies of modern burrows and bio-turbation features

Albert G. Greene, Jr. Ph.D.
Asst. Director and Research Associate
Physiology of halophytes

Vernon J. Henry, Jr. Ph.D.
Director and Assoc. Professor of Geology
Distribution and transport of estuarine and continental shelf sediments

James D. Howard Ph.D.
Asst. Professor of Geology
Analogies between recent and ancient sedimentary environments; trace fossils; X-ray radiology of sedimentary textures

John H. Hoyt Ph.D.
Assoc. Professor of Geology
Sedimentation, stratigraphy and structure of coastal Georgia, and southeast U.S.

Frederick C. Marland Ph.D.
Research Associate
Ecology of salt marsh invertebrates; carbon budget of a small marsh watershed

Robert J. Reimold Ph.D.
Asst. Professor of Zoology
Biogeochemical cycling of elements and radionuclides in salt marsh and estuarine ecosystems

Frederick G. Smith D.V.M.
Research Associate
Diseases of estuarine fishes

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Ga. Department of Mines, Mining and Geology

J. H. Auvil, Jr.
Director
Geology and oceanography; off-shore mineral resources; stratigraphy; heavy mineral deposits

Ga. Game and Fish Commission, Coastal Fisheries Division

John G. Adams
Marine Biologist and Asst. Project Leader
Commercial marine resources of the Georgia coast

William W. Anderson
Chief, Coastal Fisheries Research and Development Program
Ecology of Georgia's estuarine waters

David H. G. Gould
Supervisor of Coastal Fisheries
Coastal fisheries

Ga. State Water Quality Control Board

R. S. Howard, Jr.
Executive Secretary
Regulation and enforcement of water quality standards; waste water treatment and control

Ocean Science Center of the Atlantic Commission

John F. McGowan
Asst. Director

Thomas H. Suddath
Executive Director
Technical advisor to state agencies concerning coastal and marine development; establish marine resources extension centers

♦ ♦ ♦

U.S. Department of Agriculture, Agricultural Research Service, Soil And Water Conservation, Research Division, Coastal Plains Experiment Station

A. W. Thomas
Soil erosion and crop management

U.S. Department of Health, Education and Welfare, Public Health Service

Roger Olmstead
Head, Shellfish Inspection and Control Divison
Research in shellfish processing and packaging

U.S. Department of the Interior, Bureau of Commercial Fisheries

Robert Cummings, Jr.
Station Chief, Exploratory Fisheries Unit
Exploratory fishing and gear research

Ray Maurier
Fisheries Biologist

Lenard May
Fisheries Biologist

Raymond Nelson
Fisheries Biologist

J. B. Rivers
Fisheries methods and equipment specialist

U.S. Department of the Interior, Bureau of Outdoor Recreation

Roy K. Woods
Regional Director
Recreation research on the coastal area

U.S. Department of the Interior, Bureau of Sport Fisheries & Wildlife, Southeastern Fish Control Laboratory

Ralph M. Burress
Chief
Studies on chemical compounds and their effects on fish, as toxicants, anesthetics, or sterilants

U.S. Department of the Interior, Federal Water Quality Administration, Southeastern Water Laboratory

David W. Duttweiler Ph.D., P.E.
Director
Water pollution control: fate of pollutants in fresh waters; development of physical-chemical analytical methods

U.S. Department of the Interior, Geological Survey

H. B. Counts
Director, Savannah Project, and Hydrologist
Salt water contamination studies of aquifer around Savannah

John R. George
Regional Director at Atlanta
Pollution and hydrology study, salt water contamination around Brunswick and Savannah

Dean O. Gregg
Director at Brunswick and Hydrologist
Salt water contamination

♦ ♦ ♦

Dames & Moore, Consulting Engineers

Benjamin S. Persons
Partner, Atlanta Office
Consulting engineers in applied earth sciences; hydrological studies; oceanographic studies

Hercules Powder Co.

C. E. Tyler
Chemical Superintendent
Pollution abatement

Law Engineering Testing Company

Gordon B. Dalrymple
President
Geotechnical engineering and consultation for off-shore structures; commercial and environmental testing and evaluation

Mayes, Sudderth and Etheredge, Inc.

C. E. Etheredge
Engineer

George Hardy
Engineer

Joe A. Mayes
Director and Professional Engineer
Sanitary and civil engineering; consulting and planning; water and sewage facilities; stream analysis; pollution control studies

B. D. Sudderth
Engineer

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NORTH CAROLINA

CAPE FEAR TECHNICAL INSTITUTE†

Walter A. Arseneault
Instructor
Math; naviagation; seamanship; cartography

Roger H. Averette
Instructor
Physics; oceanography; chemistry and biology

Emmett J. Gossen
Instructor
Chief Engineer, R/V Advance II; marine engineering and equipment

Arthur W. Jordan Captain
Coordinator of Marine Technology
Master, R/V Advance II; marine technology instructor; oceanology and fishing operations

M. J. McLeod
President
Technical training

Brian T. Sullivan
Second Mate, R/V Advance II

Robert H. Williams
Instructor
1st Engineer, R/V Advance II

DUKE UNIVERSITY

Department of Biochemistry

James B. Sullivan III Ph.D.
Asst. Professor
Biochemical evolution

Department of Botany

T. W. Johnson, Jr. Ph.D.
Chairman and Professor
Marine and fresh water fungi

Richard B. Searles Ph.D.
Assoc. Professor
Marine algae

Robert Wilbur
Assoc. Professor
Coastal vegetation

Department of Chemistry

Louis D. Quin Ph.D.
Professor
Chemistry of marine organisms

Department of Civil Engineering

David W. Hill Ph.D.
Assoc. Professor
Ocean engineering

Department of Electrical Engineering

L. W. Nolte Ph.D.
Assoc. Professor
Statistical signal processing and communications in underwater acoustics

Department of Geology

William J. Furbish Ph.D.
Assoc. Professor
Mineralogy of marine deposits

S. Duncan Heron, Jr. Ph.D.
Assoc. Professor
Mineralogy of marine deposits

†Personnel listings as of 1969; later information not available

George W. Lynts Ph.D.
Asst. Professor
Marine geology; micropaleontology

Ronald D. Perkins Ph.D.
Assoc. Professor
Shallow marine geology

Orrin H. Pilkey Ph.D.
Assoc. Professor
Marine geology; sedimentation

Department of Mechanical Engineering

J. Sigfred Linderoth, Jr.
Professor
Ocean engineering

Department of Physiology

John Gutknecht Ph.D.
Asst. Professor
Ionic and osmotic regulation in crustaceans

Department of Zoology

Charles Epifanio
Effect of dieldrin on larvae of decapod crustaceans

Stephen Sulkin
Pressure effects on crustacean larvae

Stephen A. Wainwright Ph.D.
Assoc. Professor
Barnacles and corals

Karl M. Wilbur Ph.D.
Professor
Molluscan physiology

Duke University Medical Center

D. F. L. Ginn Ph.D.
Asst. Professor
Cell volume control of epithelium

Bryan Hills Ph.D.
Assoc. Professor
Diving physiology

Johannes A. Kylstra Ph.D.
Assoc. Professor
Physiology of breathing sea-water

Herbert A. Saltzman Ph.D.
Professor
Hyperbaric oxygenation; biomedical response to unusual environments

Wirt W. Smith Ph.D.
Assoc. Professor
Hyperbaric oxygenation; pressure physiology

B. F. Trump Ph.D.
Professor
Plasmalemmal alterations of marine animals

School of Engineering

Bruce J. Muga Ph.D.
Assoc. Professor
Coastal and ocean engineering, and construction

DUKE UNIVERSITY MARINE LABORATORY

Richard T. Barber Ph.D.
Assoc. Professor
Biological oceanography

Cazlyn G. Bookhout Ph.D.
Professor
Invertebrate zoology; larval ecology

John D. Costlow, Jr. Ph.D.
Director and Professor
Crustacean development

Bruce C. Coull Ph.D.
NSF Postdoctoral Awardee
Shelf, slope, and deep sea meiobenthos

I. E. Gray
Professor Emeritus
Marine ecology

Susan A. Huntsman Ph.D.
Research Associate
Phytoplankton physiology

Charles Kellogg
Ecology and behavior of marine invertebrates

Lynda Murphy
Antiquity of abyssal fauna

Eric B. Nelson
Asst. Marine Superintendent of Oceanographic Operations
Oceanography

John G. Newton
Marine Superintendent of Oceanographic Operations
Oceanography; physiography of Carolina continental margins

Michele Regnault Docteur 3 eme cycle
Research Associate
Shrimp development

Unnsteinn Stefansson Ph.D.
Professor
Physical and chemical oceanography

John P. Sutherland Ph.D.
Asst. Professor
Marine ecology

Robert Tucker
Amino acid metabolism in crab larvae

Joanne Whitney Ph.D.
Research Associate
Lipid metabolism in Crustacea

EAST CAROLINA COLLEGE

Department of Biology

Frances P. Belcik
Instructor
Invertebrate parasitology

Vincent J. Bellis Ph.D.
Asst. Professor
Algal ecology; relation of estuarine algae to water quality

Charles E. Bland Ph.D.
Asst. Professor
Fungi on eggs of marine invertebrates

Joseph G. Boyette Ph.D.
Professor
Ichthyology; animal behavior

Graham J. Davis Ph.D.
Chairman and Professor
Physiology of aquatic plants

John S. Laurie Ph.D.
Assoc. Professor
Invertebrate parasite physiology

James S. McDaniel Ph.D.
Asst. Professor
Parasitology of marine fish

Edward P. Ryan Ph.D.
Assoc. Professor
Reproductive biology of the marine decapods

Mason Smith Ph.D.
Asst. Professor
Immune response in fishes

Department of Geography

Leonard Gustafson
Asst. Professor
Coastal microclimates

David H. Stillwell
Assoc. Professor
Recreational use of coastal land

Department of Geology

B. A. Bishop Ph.D.
Asst. Professor
Carbonate environments

C. O. Brown Ph.D.
Professor
Clay mineralogy; geochemistry

A. Ray Jennings Ph.D.
Assoc. Professor
Hydrology of coastal plain

Richard L. Maugger Ph.D.
Asst. Professor
Geochemistry of estuarine environment

Michael P. O'Conner Ph.D.
Asst. Professor
Marine geology; paleoecology; estuarine sediment deposits; mineral exploration

Stanley R. Riggs Ph.D.
Asst. Professor
Marine geology; economic geology; estuarine sediment deposits; mineral exploration

Marine Science Center, Manteo

Charles W. O'Rear, Jr.
Director
Fish metabolism; chemistry of natural waters; bacterial flora of striped bass; nutritional needs of anadromous fish

NORTH CAROLINA STATE UNIVERSITY

Department of Biochemistry

Ian S. Longmuir Ph.D.
Professor
Response of organisms to high pressures

Department of Biological and Agricultural Engineering

Henry D. Bowen Ph.D.
Professor
Biophysics of marine plant environments

George J. Kriz Ph.D.
Assoc. Professor
Model to determine fresh water availability

David A. Link Ph.D.
Assoc. Professor
Systems engineering and instrumentation for biological research

Charles W. Suggs Ph.D.
Professor
Human factors in equipment design

Department of Botany

Arthur W. Cooper Ph.D.
Professor
Coastal ecology

Larry A. Whitford Ph.D.
Professor
Ecology and taxonomy of algae

Department of Chemical Engineering

Kenneth O. Beatty Ph.D.
Professor
Fluid dynamics; heat transfer; highspeed photography

Harold B. Hopfenberg Ph.D.
Assoc. Professor
Diffusion and absorption in membranes

David B. Marsland Ph.D.
Assoc. Professor
Transport processes; thermodynamics and desalinization

Edward M. Shoenborn Ph.D.
Professor
Phase equilibrium and diffusional operations; distillation; mass transfer

Vivian T. Stannett Ph.D.
Professor
Polymer science and membrane technology

Department of Chemistry

Lawrence H. Bowen Ph.D.
Assoc. Professor
Aqueous solution chemistry

M. Keith DeArmond Ph.D.
Assoc. Professor
Chemical oceanography

Forrest W. Getzen Ph.D.
Assoc. Professor
Aqueous solution chemistry

Forrest C. Hentz, Jr. Ph.D.
Assoc. Professor
Aqueous chemistry of heavy-metal ions

Samuel G. Levine Ph.D.
Professor
Isolation and structure determination of sterols and other marine substances

George H. Wahl Ph.D.
Assoc. Professor
Organic chemistry in aqueous solutions

Raymond C. White Ph.D.
Professor
Chlorophyll and derivatives in marine life and oceanic sediment

Department of Civil Engineering

Michael Amein Ph.D.
Assoc. Professor
Fluid dynamics

Newton V. Colston Ph.D.
Asst. Professor
Marine engineering

William S. Galler Ph.D.
Assoc. Professor
Use of mathematical programming for optimal design of environmental systems

L. Jay Langfelder Ph.D.
Assoc. Professor
Engineering properties of marine sediments

Jerry L. Mechemehl Ph.D.
Asst. Professor
Coastal engineering

Charles Smallwood, Jr.
Professor
Biological treatment of wastes in sea water

Department of Economics

R. A. King Ph.D.
Professor
Fishery economics

Department of Engineering Mechanics

John A. Edwards Ph.D.
Assoc. Professor
Fluid mechanics and transport phenomena

Patrick H. McDonald Ph.D.
Professor
Underwater transducers and sonic sources

Department of Food Science

Roy E. Carawan
Extension specialist
Seafood processing

Victor A. Jones Ph.D.
Assoc. Professor
Seafood processing

Frank B. Thomas Ph.D.
Professor
Seafood processing

Neil B. Webb Ph.D.
Assoc. Professor
Seafood processing; biochemical properties of water-protein inter-relationship

Department of Genetics

Daniel S. Grosch Ph.D.
Professor
Genetics of marine organisms; radiation biology

Department of Geosciences

Henry S. Brown Ph.D.
Professor
Marine geology and geochemistry

Norden E. Huang Ph.D.
Asst. Professor
Physical oceanography; fluid mechanics

Carlton J. Leith Ph.D.
Professor
Sedimentation; engineering geology; applied geophysics

Walter J. Saucier Ph.D.
Professor
Marine meteorology

James R. Smith
Adjunct Assoc. Professor
Marine meteorology

Charles W. Welby Ph.D.
Assoc. Professor
Marine sediments

Department of Mechanical and Aerospace Engineering

Jesse S. Doolittle
Professor
Thermodynamics of desalinization processes

Francis J. Hale Ph.D.
Assoc. Professor
Control problems in desalinization systems

Franklin D. Hart Ph.D.
Asst. Professor
Underwater acoustics problems

Lalji J. Pavagadhi Ph.D.
Adjunct Asst. Professor
Fluid dynamics and heat transfer from underwater bodies

John N. Perkins
Assoc. Professor
Motion of multicomponent fluid flows

Robert M. Pinkerton
Professor
Low speed fluid flow around submerged bodies

Larry H. Royster Ph.D.
Asst. Professor
Underwater acoustics

Frederick O. Smetana Ph.D.
Professor
Motion of fluid masses under the influence of density gradients

James E. Sunderland Ph.D.
Professor
Heat and mass transfer from biological substances

Robert W. Truitt Ph.D.
Professor
Dynamics of fluid motion

James C. Williams, III Ph.D.
Professor
Aerodynamics and boundary layer theory

James Woodburn Ph.D.
Professor
Underwater acoustical propagation

Department of Microbiology

Gerald H. Elkan Ph.D.
Assoc. Professor
Use of nitrogen fixation by marine micro-organisms

Jerome J. Perry Ph.D.
Assoc. Professor
Marine geomicrobiology

Department of Nuclear Engineering

James R. Bohannon, Jr. Ph.D.
Assoc. Professor
Trace metals in seawater

Department of Poultry Science

Charles H. Hill Ph.D.
Professor
Use of marine algae and fish protein as food sources

Chun S. U. Kim Ph.D.
Asst. Professor
Marine algal taxonomy

Department of Soil Sciences

Stanley W. Buol Ph.D.
Assoc. Professor
Soil genesis

Maurice G. Cook Ph.D.
Assoc. Professor
Soil mineralogy

Sterling B. Weed Ph.D.
Professor
Soil mineralogy and soil chemistry

William W. Woodhouse Ph.D.
Professor
Coastal dune stabilization

Department of Zoology

Phyllis C. Bradbury Ph.D.
Asst. Professor
Fine structure and morphogensis of marine protozoa

Billy J. Copeland Ph.D.
Assoc. Professor and Director,
Pamlico Marine Laboratory, Aurora
Estuarine ecology; effects of environmental stresses

William W. Hassler Ph.D.
Professor and Director, Hatteras
Marine Laboratory, Hatteras Island
Fishery biology; marine game fish survey

Don W. Hayne Ph.D.
Professor
Biometrics; ecology; population dynamics

F. Eugene Hester Ph.D.
Assoc. Professor and Director,
N. C. Cooperative Fishery Unit
Fishery biology

John E. Hobbie Ph.D.
Assoc. Professor
Limnology; estuarine biology and plankton physiology

Harbor House Marine Science Center, Wrightsville Beach

Durwood Baggett
Director and County Extension Chairman
Education and training in marine-related fields

Water Resources Research Institute

David H. Howells
Director and Professor
Water resources information and research

UNIVERSITY OF NORTH CAROLINA AT CHAPEL HILL

Department of Bacteriology

Harry Gooder Ph.D.
Professor
Comparison of wall-less and marine bacteria

William R. Straughn Ph.D.
Assoc. Professor
Bacterial physiology

Robert Twarog Ph.D.
Asst. Professor
Microbial chemistry control and regulation of enzyme synthesis

Department of Biochemistry

Carl E. Anderson Ph.D.
Professor
Phospholipids and lipid glyceryl ethers of marine animals

M. K. Berkut Ph.D.
Assoc. Professor
Marine hematology

J. Logan Irvin Ph.D.
Chairman and Professor
Marine biochemistry

Ralph Penniall Ph.D.
Professor
Sea urchins as a source of tissue nuclei

George K. Summer Ph.D.
Assoc. Professor
Biochemistry and developmental biology

Department of Botany

Max H. Hommersand Ph.D.
Assoc. Professor
Marine algae

William J. Koch Ph.D.
Professor
Marine fungi

Helmut Lieth Ph.D.
Professor
Ecology

J. Frank McCormick Ph.D.
Assoc. Professor
Marine ecology

Department of Chemistry

J. L. Coke Ph.D.
Assoc. Professor
Alkaloids in marine plants and animals

Department of City and Regional Planning

Maynard M. Hufschmidt Ph.D.
Professor
Environmental and regional planning

Hugh Knox
Lecturer
Regional economic analysis

David H. Moreau Ph.D.
Asst. Professor
Systems analysis of environmental control systems

Francis Parker Ph.D.
Asst. Professor
State and regional planning

Department of Environmental Sciences and Engineering

J. Donald Johnson Ph.D.
Assoc. Professor
Estuarine chemistry and sediments

Edward J. Kuenzler Ph.D.
Assoc. Professor
Marine biology and ecology

John Lyman Ph.D.
Professor
Chemical and physical oceanography

Robert A. Mah Ph.D.
Assoc. Professor
Microbial ecology and anaerobic microorganisms

Lyman A. Ripperton Ph.D.
Assoc. Professor
Air sea interchanges

Charles M. Weiss Ph.D.
Professor
Marine biology; distribution of marine organisms; nitrogen and carbon cycles

Department of Geology

J. Robert Butler Ph.D.
Assoc. Professor
Petrology of igneous and metamorphic rocks in ocean basins

John M. Dennison Ph.D.
Chairman and Professor
Stratigraphy and sedimentation sampling theory

David E. Dunn Ph.D.
Assoc. Professor
Structural geology of ocean basins

Paul D. Fullagar Ph.D.
Assoc. Professor
Strontium composition of sea water

Roy L. Ingram Ph.D.
Professor
Marine sediments

Ben Korgen Ph.D.
Asst. Professor
Physical oceanography

Virgil I. Mann Ph.D.
Professor
Mineral deposits

Paul C. Ragland Ph.D.
Assoc. Professor
Marine geology

Joseph Saint Jean, Jr. Ph.D.
Professor
Foraminifera

Daniel A. Textoris Ph.D.
Assoc. Professor
Marine sediments

Joel S. Watkins Ph.D.
Assoc. Professor
Marine geophysics

Walter H. Wheeler Ph.D.
Professor
Molluscan taxonomic and ecologic studies

William A. White Ph.D.
Professor
Submarine erosion; shoreline evolution; relict shorelines

Department of Pathology

Kenneth Brinkhous M.D.
Professor
Hematology of marine animals

Robert D. Langdell M.D.
Professor
Marine pathology

R. G. Mason M.D.
Asst. Professor
Hemostasis; blood coagulation

Nathaniel F. Rodman M.D.
Assoc. Professor
Thrombocytes in marine animals

Department of Physics

Bryce S. DeWitt Ph.D.
Professor
Geophysics

Department of Physiology

Robert G. Faust Ph.D.
Assoc. Professor
Physiology of marine organisms

John L. Ferguson Ph.D., M.D.
Professor
Malacology

Richard L. Glasser Ph.D.
Assoc. Professor
Control of respiration by the nervous system

Lloyd Yonce Ph.D.
Assoc. Professor
Cardiovascular problems in marine organisms

Department of Statistics

Charles R. Baker Ph.D.
Assoc. Professor
Applications of communication theory and stochastic processes

M. R. Leadbetter Ph.D.
Professor
Sea noise and frequency of transmitted sound

Department of Zoology

Donald P. Costello Ph.D.
Professor
Embryology; cytology; fine structure; chromosomes

Catherine Henley Ph.D.
Research Associate
Embryology; cytology; fine structure; sperm

Charles E. Jenner Ph.D.
Professor
Biology of marine invertebrates

H. E. Lehman Ph.D.
Professor
Experimental embryology of marine organisms

Elizabeth McMahan Ph.D.
Assoc. Professor
Ecology; behavior of marine organisms

Helmut C. Mueller Ph.D.
Asst. Professor
Behavior of marine animals

Howard T. Odum Ph.D.
Professor
Ecosystems; oceanography

Rupert J. M. Riedl Ph.D.
Professor
Marine invertebrates

Alan E. Stiven
Assoc. Professor
Population ecology

Richard B. Terry Ph.D.
Asst. Professor
Development of marine organisms

School of Dentistry

Miles A. Crenshaw Ph.D.
Asst. Professor
Calcification in molluscs; comparative biochemistry and physiology

Jerry Neff Ph.D.
Asst. Professor
Calcification in invertebrates; electron microscopy

School of Law

Thomas J. Schoenbaum
Asst. Professor
Management regulation legislation regarding development of marine resources

School of Pharmacy

Claude Piantidosi Ph.D.
Professor
Marine biochemistry

UNIVERSITY OF NORTH CAROLINA INSTITUTE OF MARINE SCIENCES

Alphonse F. Chestnut Ph.D.
Director and Professor
Marine ecology; physiology and ecology of molluscs

William E. Fahy Ph.D.
Professor
Ichthyology; experimental studies of environment and response of meristic structures in young fishes

Jan J. Kohlmeyer Ph.D.
Assoc. Professor
Marine botany

Hugh J. Porter
Asst. Professor
Marine ecology; systematics and zoogeography of molluscs

Frank J. Schwartz Ph.D.
Assoc. Professor
Zoogeography of fishes

Austin B. Williams Ph.D.
Professor
Marine ecology; systematics and zoogeography of decapod crustacea

William J. Woods Ph.D.
Assoc. Professor
Plankton ecology; nutrient cycles; hydrology; chemistry

UNIVERSITY OF NORTH CAROLINA AT WILMINGTON

Department of Biology

Ann McCrary Ph.D.
Asst. Professor
Effects of sewage pollution on marine invertebrate populations

WRIGHTSVILLE MARINE BIOMEDICAL LABORATORY †

Ralph W. Brauer Ph.D.
Director
Physiology of man and vertebrates in marine environments; physiological effects of high pressures

X. Fructus
Physiology of animals in high pressures

M. R. Jordan
Physiology of aquatic animals and animals under high pressure

†Personnel listings as of 1969; later information not available

D. E. Parrish
Physiology of animals in high pressures

M. E. Sheehan
Physiological effects of high pressures

R. O. Way
Physiology of animals in high pressures

♦ ♦ ♦

Carteret County Public Schools

Will Hon
Director, Regional Marine Science Project
Teacher training in marine science education and ecology

N. C. Department of the Attorney General

Thomas Kane
Attorney
Legal aspects of state coastal, estuarine and marine problems

N. C. Department of Conservation and Development, Division of Commercial and Sport Fisheries

James T. Brown
Chief of Estuarine Studies and Biologist
Coordinates activities of Divison; field studies on dredge and fill permits; estuarine zoning study

Walter F. Godwin
Supervisor and Biologist
Coordinates and supervises field activities of districts; oyster rehabilitation program

Benjamin F. Holland
Project Leader, Exploratory Fishing and Biologist
Off-shore anadromous fish inventory; harvesting methods for other species; exploratory fishing

Thomas L. Linton Ph.D.
Fisheries Commissioner
Marine fisheries resources

Edward G. McCoy
Chief, Research and Development and Biologist
Coordinates Division activities; shrimp studies

Fentress Munden
Biologist
Coordinates statewide oyster rehabilitation program and experimental seed oyster plantings

Samuel J. Reeves
Biologist
Studies on long-term effects on commercially harvesting young foodfish species

C. Douglas Ringer
Biologist
Biological investigation of dredge and fill projects; assist in estuarine inventory

Dennis Spitsbergen
Biologist
Coordinates statewide oyster rehabilitation program and experimental seed oyster plantings

Michael W. Street
Biologist
Off-shore anadromous fish inventory; harvesting methods for other species; exploratory fishing

Maury Wolff
Project Leader, Scrap Fish and Biologist
Studies on long-term effects of commercially harvesting young foodfish species

N. C. Department of Conservation and Development, Seashore Advisory Board

Aaron A. Hathcock
Seashore Promotion Officer
Conservation and development of seashore

N. C. State Ports Authority

James W. Davis
Director
Marine transportation

♦ ♦ ♦

U.S. Department of the Army, Corps of Engineers, Wilmington District

Paul S. Denison Colonel
District Engineer
Coastal engineering; shore processes; tidal flow and circulation patterns

Edward G. Long, Jr.
Chief, Engineering Division
Coastal engineering

Limberios Vallianos
Chief, Coastal Engineering Section
Coastal engineering

U.S. Department of the Interior, Bureau of Commercial Fisheries, Center for Estuarine and Menhaden Research

Joseph W. Angelovic Ph.D.
Fishery Biologist and Adjunct Asst. Professor, Dept. Zoology, N.C.S.U.
Radioecology; fish physiology

John P. Baptist
Fishery Biologist
Radioecology

Robert B. Chapoton
Fishery Biologist
Population dynamics

Randall P. Cheek
Fishery Biologist
Population dynamics

Linda C. Coston
Fishery Biologist
Population dynamics

Ford A. Cross Ph.D.
Oceanographer and Adjunct Asst. Professor, Dept. Zoology, N.C.S.U.
Radioecology; biological oceanogrphy

Harry S. Davis
Fishery Reporting Specialist
Commercial fishery statistics

Robert L. Dryfoos Ph.D.
Fishery Biologist
Population dynamics

Donnie L. Dudley
Fishery Biologist
Population dynamics

David W. Engel
Fishery Biologist
Radiation physiology

Kenneth C. Harris
Fishery Reporting Specialist
Commercial fishery statistics

William F. Hettler, Jr.
Fishery Biologist
Fish physiology

John E. Hollingsworth
Computer Systems Analyst
Computer programming

Donald E. Hoss
Fishery Biologist
Fish physiology and ecology

Gene R. Huntsman Ph.D.
Fishery Biologist
Population dynamics

Mayo H. Judy
Fishery Biologist
Population dynamics

Peggy M. Keney
Fishery Biologist
Environmental data compilation

Richard L. Kroger
Fishery Biologist
Population dynamics

Robert M. Lewis
Fishery Biologist
Effects of environmental factors on fish

Richard W. Lichtenheld Ph.D.
Fishery Biologist
Physiology; behavioral ecology

Thomas W. McKenney Ph.D.
Fishery Biologist
Ichthyology-larval fish studies; biological oceanography

William R. Nicholson
Fishery Biologist
Population dynamics

Richard O. Parker, Jr.
Fishery Biologist
Population dynamics

Thomas J. Price
Fishery Biologist
Radioecology and benthic energetics

John W. Reintjes
Fishery Biologist
Fish ecology

Theodore R. Rice Ph.D.
Director and Adjunct Professor, Dept. Zoology, N.C.S.U.
Phytoplankton physiology; marine radiobiology and ecology

William E. Schaaf
Biologist
Ecology and biometrics

Glenn B. Sekavec
Fishery Biologist
Population dynamics

Gordon W. Thayer Ph.D.
Fishery Biologist
Estuarine energy flow

William R. Turner
Fishery Biologist
Fish ecology

Stanley M. Warlen
Fishery Biologist
Population dynamics

Richard B. Williams Ph.D.
Fishery Biologist and Adjunct Asst. Professor, Dept. Zoology, N.C.S.U.
Marine ecology; systems analysis; plankton energetics and productivity

James N. Willis, III
Fishery Biologist
Chemical oceanography

Douglas A. Wolfe Ph.D.
Research Chemist and Adjunct Asst. Professor, Dept. Zoology, N.C.S.U.
Marine and estuarine radioecology; biology of molluscs, comparative biochemistry

U.S. Department of the Interior, Office of Saline Water – Wrightsville Beach Test Facility

Wilfred J. Hahn
Manager
Saline water conversion technology and processes

W. M. Heher
Field Engineer

♦ ♦ ♦

Coastal Zone Resources Corporation of N.C.

David A. Adams Ph.D.
President
Research and consulting in marine resources

The International Nickel Company, Inc., Francis L. LaQue Corrosion Laboratory

David B. Anderson
Engineer
Engineering aspects of marine corrosion

Alfred O. Barry
Engineer
Mechanical engineering aspects of marine corrosion

W. W. Kirk
Manager
Marine corrosion research and testing; improved alloys for ocean engineering and marine functions; nuclear metallurgy

Kenneth L. Money
Engineer
Metallurgy and marine corrosion

Victor G. Taylor
Asst. Manager
Marine atmospheric corrosion

Marine Chemurgics, Inc.

T. M. Miller
Director
Development of marine protein supplements; mariculture of catfish, crayfish and shrimp; development of uses for fish products

Maritime Services, Inc.

P. A. Johnson
Director
Prototype testing, construction and evaluation; oceanographic engineering; equipment development; pollution control equipment design

♦ ♦ ♦

SOUTH CAROLINA

BAPTIST COLLEGE

Department of Biology

Clarence Chesnutt Ph.D.
Professor
Marine biology

THE CITADEL

Department of Biology

Robert E. Baldwin Ph.D.
Assoc. Professor
Effects of pollution on lipid metabolism of marine animals

Emory S. Crosby Ph.D.
Assoc. Professor
Microbiology and botany of estuaries

Dennis M. Forsythe
Asst. Professor
Feeding ecology, social organization and population dynamics of coastal and estuarine shorebirds

Bernard M. J. Kelly, Jr. Ph.D.
Asst. Professor
Development of estuarine arthropods; physiological ecology of other marine invertebrates

Gerald L. Runey Ph.D.
Assoc. Professor
Lipid studies of various marine organisms and effects of pollutants on lipids

Frank Seabury
Asst. Professor
Marine fungi and algae of S.C.

James A. Timmerman, Jr. Ph.D.
Head and Professor
Protozoa and helminth parasites of marine animals; toxicology of chemicals on parasites and hosts

Department of Business Administration

David F. L. Bernthal
Asst. Professor
Market possibilities for fishing in the coastal plains region

Robert L. Brown, Jr.
Asst. Professor
Marketing and biostatistics

Department of Chemistry and Geology

William S. Hummers, Jr. Ph.D.
Professor
Structure of clay complexes and thermodynamics; marine geochemistry

Charles F. Jumper Ph.D.
Professor
Ion exchange properties of clay and thermodynamic properties of electrolyte solutions

Henry D. Wagener
Asst. Professor
Marine processes and mineralogy; geochemistry and geology

Department of Civil Engineering

Raymond M. Clock Ph.D.
Assoc. Professor
Environmental engineering

Department of Physics

R. S. Bender Ph.D.
Professor
X-ray diffraction

CLEMSON UNIVERSITY

College of Engineering

J. F. Andrews Ph.D.
Professor
Aquatic pollution

S. F. Hulbert Ph.D.
Assoc. Professor
Ocean engineering materials

Department of Agricultural Economics

J. C. Hite Ph.D.
Asst. Professor
Structure of seafood industry in South Carolina; evaluation of estuarine resources

J. M. Stepp Ph.D.*
Professor
Natural resources economics

Department of Entomology & Economic Zoology

R. C. Fox Ph.D.
Professor
Entomology

H. A. Loyacano Ph.D.
Fisheries biology

R. Noblet Ph.D.
Physiology

J. K. Reed Ph.D.
Professor
Toxicology, protozoology

L. G. Webb Ph.D.
Assoc. Professor
Wildlife biology

Division of Biology

W. E. Bachop Ph.D.
Embryology

R. K. Guthrie Ph.D.
Aquatic bacteriology, pollution

M. J. B. Paynter Ph.D.
Asst. Professor
Bacterial physiology, mixed cultures

A. S. Tombes Ph.D.
Assoc. Professor
Invertebrate endocrinology

Clyde J. Umphlett Ph.D.
Aquatic mycology

W. L. Willard Ph.D.
Radio-biology

Water Resources Research Institute

A. W. Snell Ph.D.*
Chairman of the Directorate
Water resources research

COLLEGE OF CHARLESTON

Department of Biology

William D. Anderson Ph.D.
Asst. Professor
Systematics and development of marine fishes

Mildred C. Chamberlain Ph.D.
Research Associate
Annelid larval development

Norman A. Chamberlain Ph.D.
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Physical sedimentation in fluvial shoreline and shelf environments; development barrier island systems

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Legal aspects of State tidelands, submerged lands and navigable waters

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Radionuclide distribution in estuary and coastal waters; sediment and chemical analysis of exchange

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Chemist
Radionuclide distribution in estuary and coastal waters; sediment and chemical analysis of exchange

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